



Patent  
Atty. Docket No. GEMS8081.207

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of : Jean H. Brittain  
Serial No. : 10/749,167  
Filing Date : December 30, 2003  
Title : MOVING TABLE MRI WITH FREQUENCY-  
ENCODING IN THE Z-DIRECTION  
Group Art No. : 2859  
Examining Attorney : Tiffany A. Fetzner

**CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10**

I hereby certify that, on the date shown below, this correspondence is being:

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**37 CFR 1.8(a)**

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**37 CFR 1.10**

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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97/99**

Dear Sir:

In compliance with Applicant's duty of disclosure as set forth in 37 C.F.R. §1.56, listed on the attached equivalent to Form PTO-1449 are those patents, publications, and other information known to Applicant which may be considered material to the patentability of the

**Inventor: Jean H. Brittain**

**S/N: 10/749,167**

claims of the above-captioned application. **One copy of each non-U.S. patent reference is attached.**

Applicant respectfully requests that the documents listed on the attached equivalent to Form PTO-1449 be considered by the Examiner, that the references be made of record in the present application, and that an initialed copy of the duplicate equivalent to Form PTO-1449 be returned to the undersigned in accordance with MPEP 609.

Respectfully submitted,



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Date: April 5, 2004  
Atty. Docket No.: GEMS8081.207

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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet

1

of

2

**Complete if Known**

<b>Application Number</b>	10/749,167
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<b>Filing Date</b>	December 30, 2003
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<b>First Named Inventor</b>	Jean H. Brittain
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Group Art Unit	2859
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Examiner Name	Tiffany A. Fetzner
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Attorney Docket Number	GEMS8081.207
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A	5,928,148		Wang et al.	07-27-1999	
	B	6,385,478		Hajnal	05-07-2002	
	C	2002/0115929	A1	Machida	08-22-2002	
	D	2002/0140423	A1	Brittain	10-03-2002	
	E	2002/0173715	A1	Kruger et al.	11-21-2002	
	F	2003/0011369	A1	Brittain et al.	01-16-2003	
	G					
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	P					
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## FOREIGN PATENT DOCUMENTS

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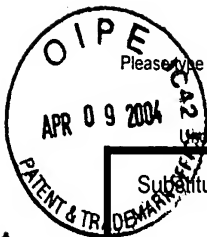
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (08-00)

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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		<b>Application Number</b>	10/749,167		
		<b>Filing Date</b>	December 30, 2003		
		<b>First Named Inventor</b>	Jean H. Brittain		
		<b>Group Art Unit</b>	2859		
		<b>Examiner Name</b>	Tiffany A. Fetzner		
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	GEMS8081.207

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	US Provisional Application SN 60/282,555, filed April 9, 2001.	
	2	J. PIPE, <i>Analysis of Localized Quadratic Encoding and Reconstruction</i> , MRM 36:137-146 (1996)	
	3	K. LIU et al., <i>Applications of Shifted-Interleaved Multi-Volume Acquisition (SIMVA) with Suppressed Slab Boundary Artifact</i> , ISMRM Seventh Scientific Meeting, pg. 1618 (1999)	
	4	K. LIU et al., <i>Artifact Transformation Technique: Shifted Interleaved Multi-Volume Acquisition (SIMVA) for 3D FSE</i> , ISMRM Sixth Scientific Meeting, pg. 572 (1998)	
	5	O. DIETRICH et al., <i>Extending the Coverage of True Volume Scans by Continuous Movement of the Subject</i> , ISMRM Seventh Scientific Meeting, pg. 1653 (1999)	
	6	K.Y. HO et al., <i>Gadolinium Optimized Tracking Technique: A New MRA Technique for Imaging the Peripheral Vascular Tree from Aorta to the Foot Using One Bolus of Gadolinium</i> , ISMRM Fifth Scientific Meeting, pg. 203 (1997)	
	7	J. HENNIG, <i>Overlapping Section Coverage in Multisection Imaging</i> , JMRI 3:425-432 (1993)	
	8	K. LIU et al., <i>Sliding Interleaved k<sub>y</sub> (SLINKY) Acquisition: A Novel 3D MRA Technique with Suppressed Slab Boundary Artifact</i> , JMRI 8:903-911 (1998)	
	9	K. LIU, <i>SLINKY: More Understanding, Optimization and Application for High Resolution MRA</i> , ISMRM Seventh Scientific Meeting, pg. 1908 (1999)	
	10	J. PIPE, <i>Spatial Encoding and Reconstruction in MRI with Quadratic Phase Profiles</i> , MRM 33:24-33 (1995)	
	11	K. LIU et al., <i>Systematic Assessment and Evaluation of Sliding Interleaved k<sub>y</sub> (SLINKY) Acquisition for 3D MRA</i> , JMRI 8:912-923 (1998)	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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